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Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

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Aeronautical Study No.
2017-ANE-4636-OE

RECEIVED

MAY 29 2019

PLANNING BOARD
GRAFTON, MA

Issued Date: 01/11/2018

Peter Crane
Crown Castle
3 Corporate Park Drive
Suite 101
Clifton Park, NY 12065

EXHIBIT 5

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower 830306 / Jon Snow
Location: Grafton, MA
Latitude: 42-13-43.72N NAD 83
Longitude: 71-41-37.27W
Heights: - 421 feet site elevation (SE)
180 feet above ground level (AGL)
601 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- ☐ At least 10 days prior to start of construction (7460-2, Part 1)
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 1.

This determination expires on 07/11/2019 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404) 305-6531, or darin.clipper@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ANE-4636-OE.

Signature Control No: 350836344-352899695

(DNE)

Darin Clipper
Specialist

Attachment(s)
Additional Information
Case Description
Frequency Data
Map(s)

cc: FCC

Additional information for ASN 2017-ANE-4636-OE

Overall AGL height must include all antennas and lighting rods or re-file with the FAA for evaluation at a greater height.

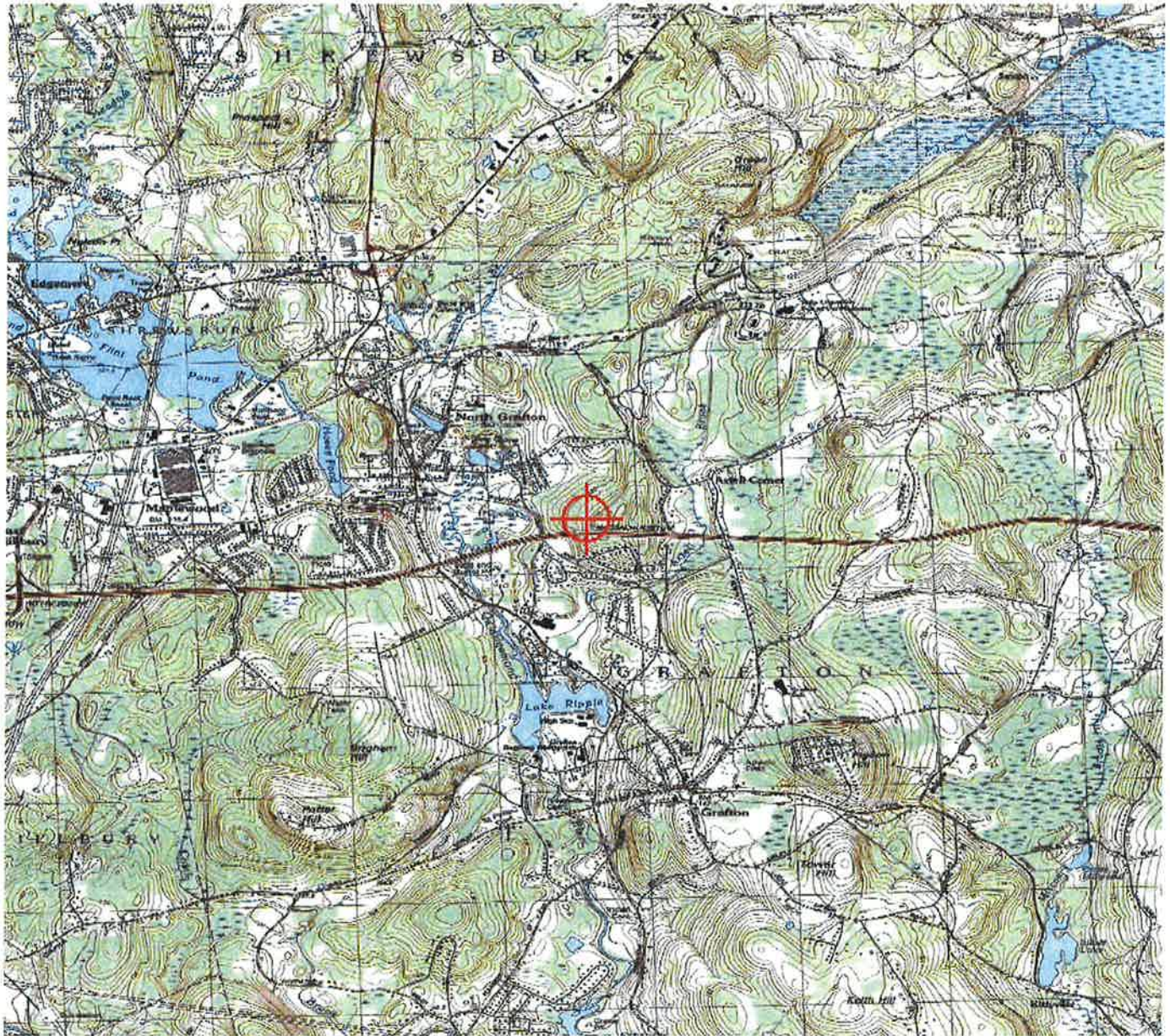
Case Description for ASN 2017-ANE-4636-OE

Proposed new tower, request omission from marking and lighting.

Frequency Data for ASN 2017-ANE-4636-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

TOPO Map for ASN 2017-ANE-4636-OE



Sectional Map for ASN 2017-ANE-4636-OE





Federal Aviation
Administration

« OE/AAA

Notice of Proposed Construction or Alteration - Off Airport

Add a new Case Off Airport - Desk Reference Guide V_2017.4.0

Add a New Case Off Airport for Wind Turbines - Met Towers - Desk Reference Guide V_2017.4.0

Project Name: CROWN-000444796-17

Sponsor: Crown Castle

Details for Case : 830306 / Jon Snow

Show Project Summary

Case Status		Date Accepted: 12/08/2017	
ASN:	2017-ANE-4636-OE	Date Determined:	
Status:	Accepted	Letters:	None
Public Comments:	None	Documents:	12/08/2017 830306 Jon Snow 1...
		Project Documents:	None
Construction / Alteration Information		Structure Summary	
Notice Of:	Construction	Structure Type:	Antenna Tower
Duration:	Permanent	Structure Name:	830306 / Jon Snow
	<i>If Temporary :</i> Months: Days	FDC NOTAM:	
Work Schedule - Start:		NOTAM Number:	
Work Schedule - End:		FCC Number:	
*For temporary cranes-Does the permanent structure require separate notice to the FAA? To find out, use the Notice Criteria Tool. If separate notice is required, please ensure it is filed. If it is not filed, please state the reason in the Description of Proposal.		Prior ASN:	
State Filing:			
Structure Details		Proposed Frequency Bands	
Latitude:	42° 13' 43.72" N	Select any combination of the applicable frequencies/powers identified in the Colorado Clause Coalition, Antenna System Co-Location, Voluntary Best Practices, effective 21 Nov 2007, to be evaluated by the FAA with your filing. If not within one of the frequency bands listed below, manually input your proposed frequency(ies) and power using the Add Specific Frequency link.	
Longitude:	71° 41' 37.27" W		
Horizontal Datum:	NAD83		
Site Elevation (SE):	421 (nearest foot) PASSED		
Structure Height (AGL):	180 (nearest foot)		
Current Height (AGL):	(nearest foot)		
* For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal			
Minimum Operating Height (AGL):	(nearest foot)		
* For aeronautical study of a crane or construction equipment the maximum height should be listed above as the Structure Height (AGL). Additionally, provide the minimum operating height to avoid delays if impacts are identified that require negotiation to a reduced height. If the Structure Height and minimum operating height are the same enter the same value in both fields.			
Requested Marking/Lighting:	None		
	<i>Other :</i>		
Recommended Marking/Lighting:			
Current Marking/Lighting:	N/A Proposed Structure		
	<i>Other :</i>		
Nearest City:	Grafton		
Nearest State:	Massachusetts		
Description of Location:	B4 Snow Road Grafton, MA 01536		
Description of Proposal:	Proposed new tower, request omission from marking and lighting		

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